

## ABSTRACT

A capacitive ultrasonic transducer is described which include one or more cells including a cavity defined by a membrane electrode supported spaced from a support electrode by insulating walls with a patterned isolation layer having isolation posts or areas located in said  
5 cavity to prevent the electrodes for coming into contact during operation of the transducer, and to minimize the accumulation of charge as compared to a non-patterned isolation layer for preventing contact of the electrodes during operation of the transducer.